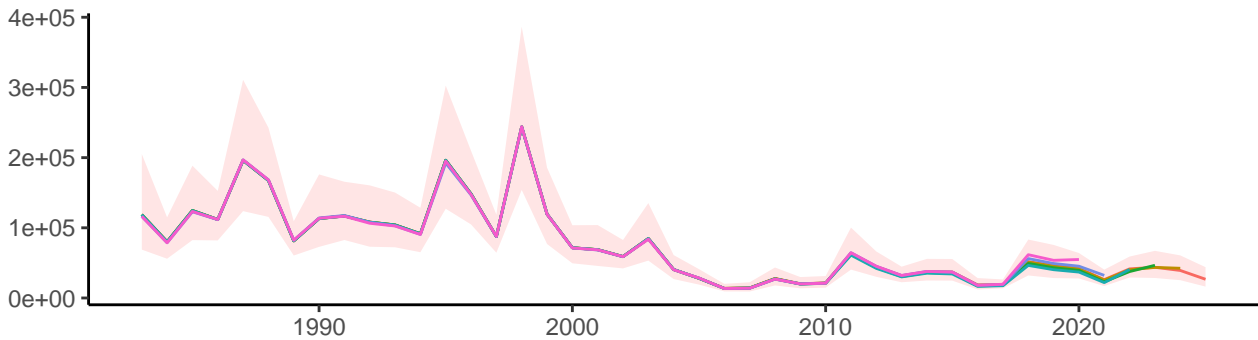
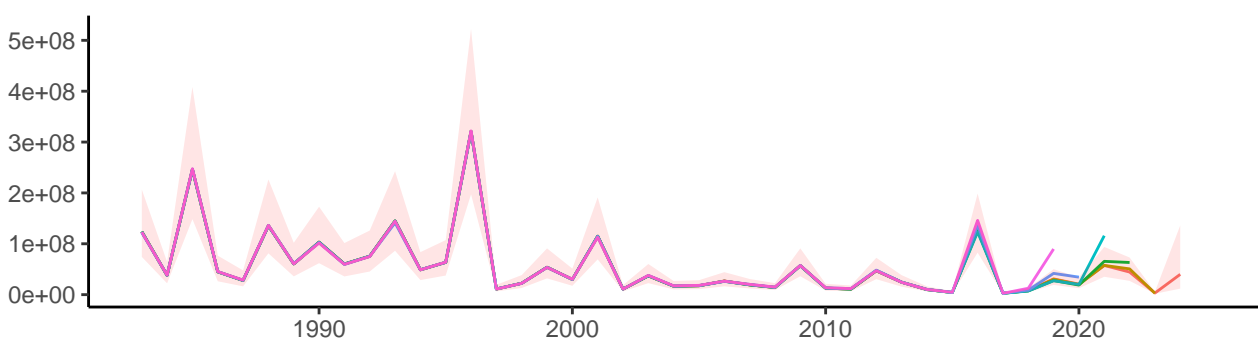


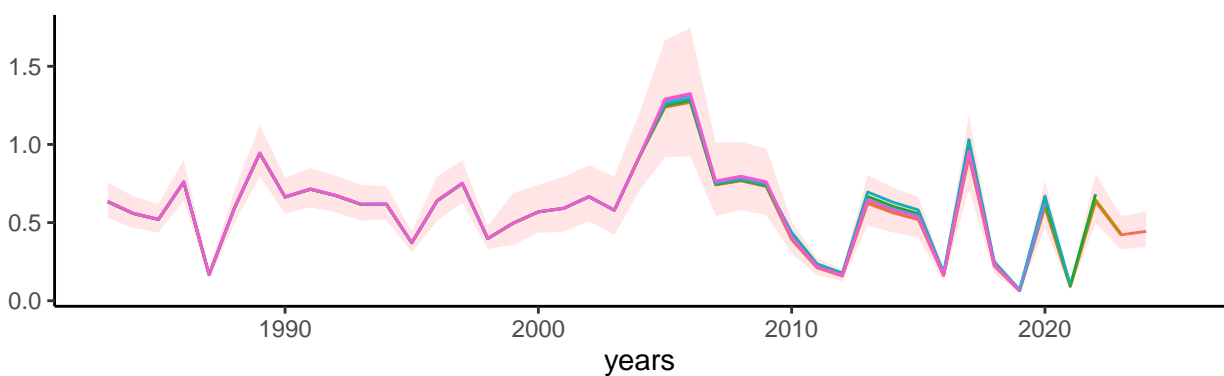
SSB, $\rho = 0.13$

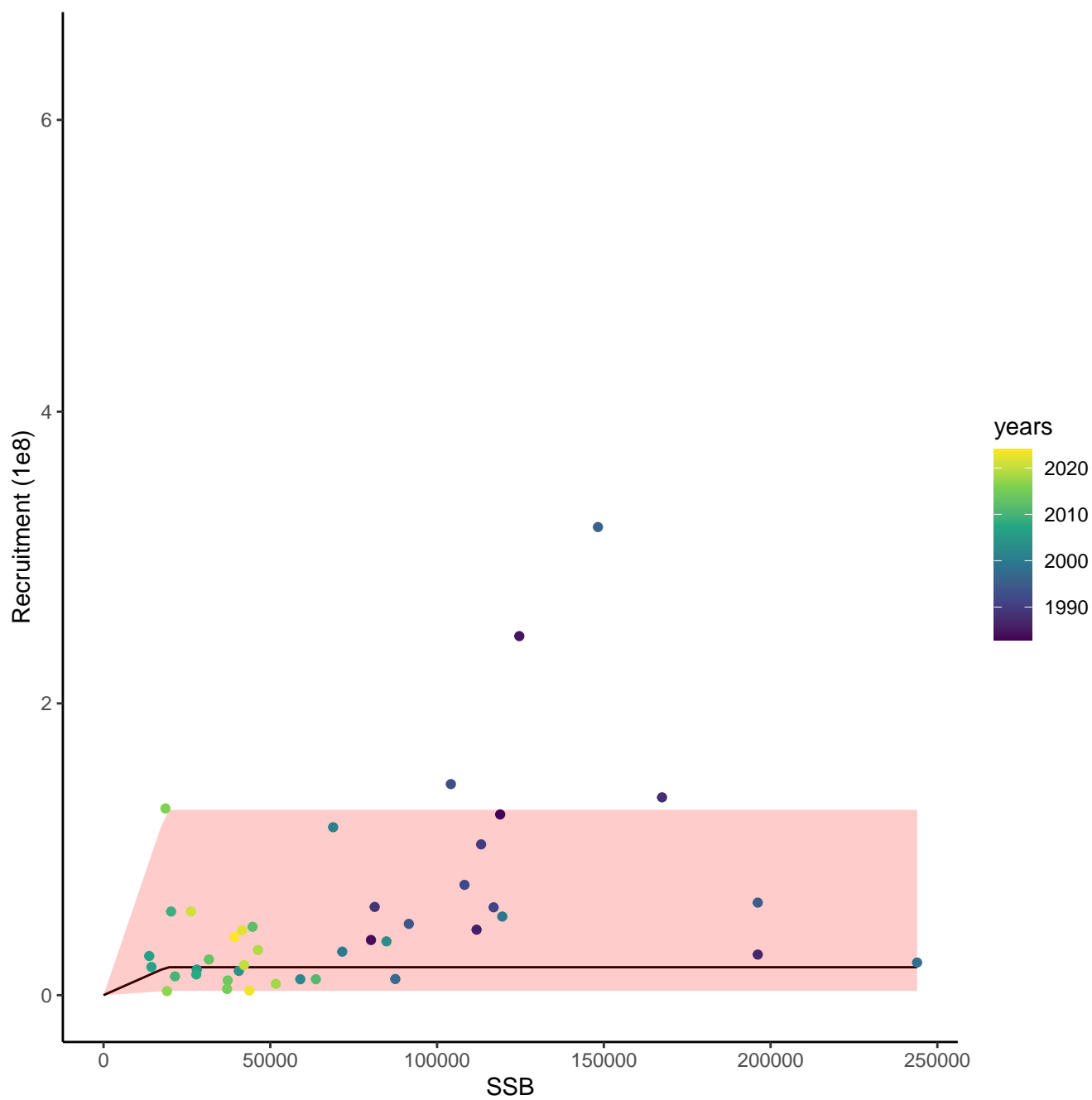


R, $\rho = 0.774$

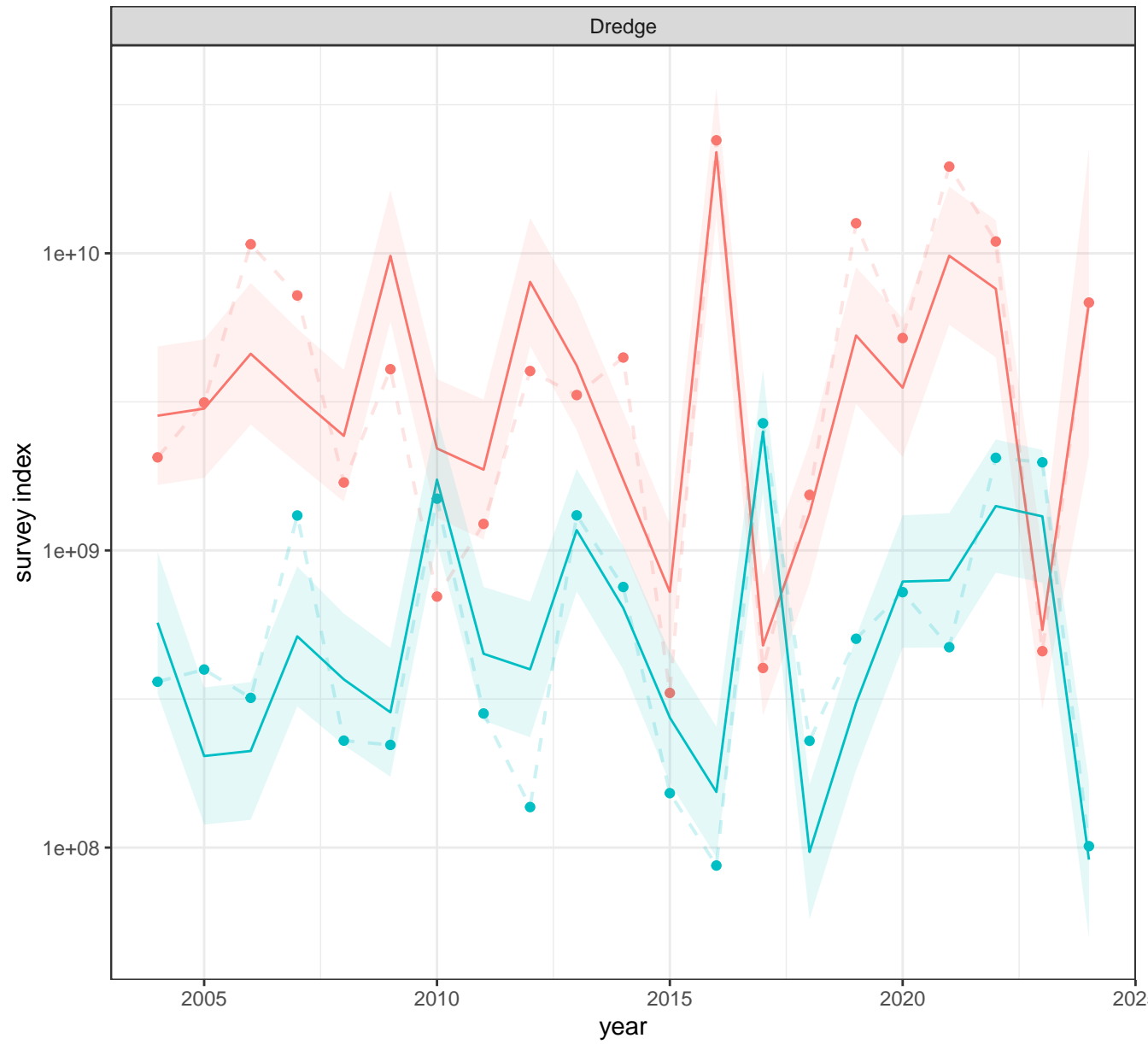


Fbar, $\rho = 0.057$

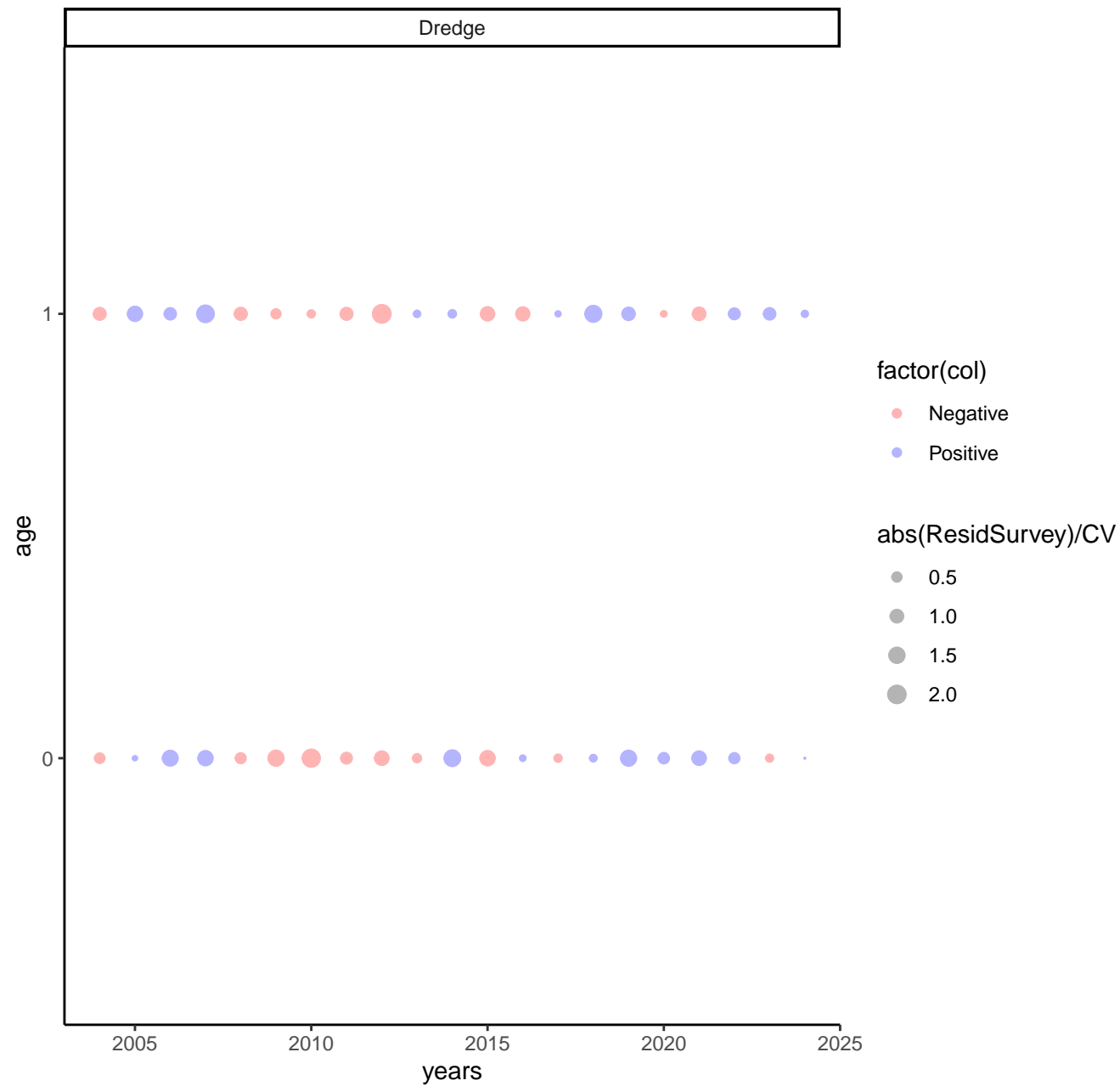




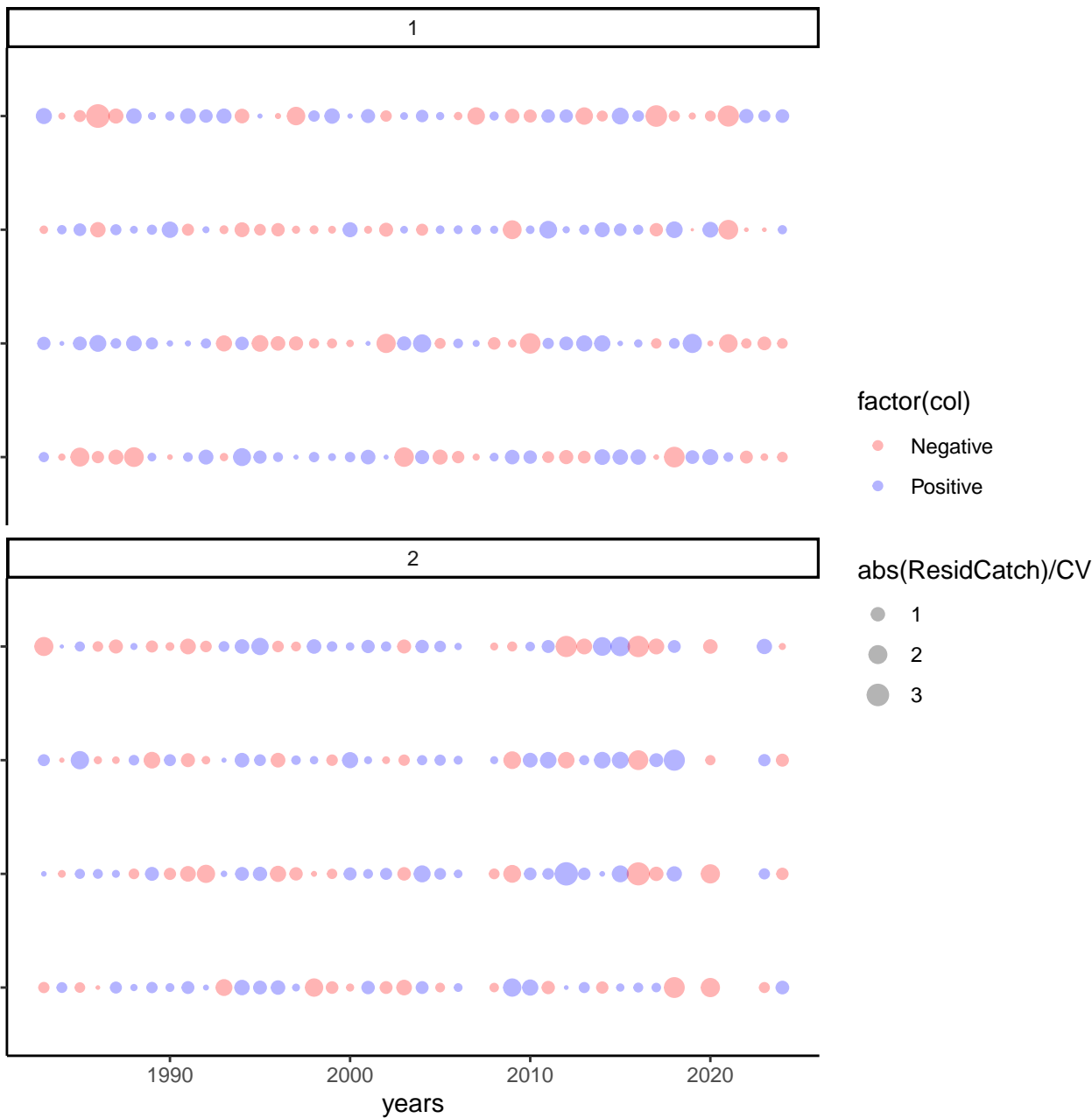
age 0 1



scaled survey residuals



scaled catch residuals



catch residuals

